5/0148/64/000/004/0124/0128 ACCESSION NR: AP4033704

AUTHOR: Grdina, Yu. V.; Sofroshenkov, A. F.; Koval', L. A.

TITIE: Resistance of Combined Coatings During Hydroabrasive Wear

SOURCE: IVUZ. Chernaya metallurgiya, no. 4, 1964, 124-128

TOPIC TAGS: diffusion layer, heat treatment, hydroabrasive wear, calorization, titanization, chrome plating, siliconizing

APSTRACT: In an earlier paper the authors investigated the properties of diffusion layers produced by combining chemical treatment with heat treatment, and they continue their research by reporting additional test results. Sleeves, checkers and segments were exposed to hydroabrasive weer. The treatment consisted of calorizing (950-10000 C) for 12 hrs, titanizing (1080 C) for 10 hrs., siliconizing (1000-1100 C) for 11 hrs. and chromizing (1150 C) for 8 hrs. All parts were good, degreased and nitrided at 500-550-520 C for 70 hrs. The authors found that wear resistance depended not only on microhardness but also on microstructure, brittleness of the layer and test conditions in which pulpand coal lines as well as hot steel runners were simulated. Although the method

Card 1/2

ACCESSION NR: AP4033704

appears somewhat complicated, it is recommended for many parts exposed to hydroabrasive wear. Orig. art. has: 4 figures and 2 tables.

ASSOCIATION: Sibirskiy metallurgicheskiy institut (Siberian Metallurgical

Institute)

SUBMITTED: 08Jun63

DATE ACQ: 07May64 ENCL: 00

SUB CODE: MM / NO REF SOV: OOL

OTHER: OOO

Card 2/2

GRDINA, Yu.V.; KREPYSHEVA, L. B.

Top boundary temperature of flake occurrence in steel. Izv. vys. ucheb. zav.; chern. met. 7 no.6:125-129 '64. (MIRA 17:7)

1. Sirbirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; GLIKMAN, Ye.E.

Mechanism of the effect of aluminum and phosphorous on the tendency to brittle failure in high phosphorous steel. Izv. vys. ucheb. zav.; chern. met. 7 no.12:;06-111 '64 (MIRA 18:1)

1. Sibirskiy metallurgicheskiy institut.

L 3\u00e437-66 EWT(m)/EWP(i)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/JG/GS

ACCESSION NR: AT5024874 UR/0000/65/000/000/0082/0088

AUTHOR: Grdina, Yu. V.; Gordeyeva, L. T.

TITLE: Diffusion coating of steel from a gaseous medium during induction heating with high-frequency currents

SOURCE: AN UkrSSR. Institut problem materialovedeniya. Diffuzionnyye pokrytiya na metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 82-88

TOPIC TAGS: induction furnace, steel, metal coating, chloride, compound, diffusion coating

ABSTRACT: The diffusion coating of armco iron, carbon steel (0.64% C) and 38KhMA steel during their induction heating was investigated. Cr, Al, Si, W, Mo, B, as well as Ti with subsequent boronizing were used as the impregnating materials. The experimental setup is shown in Fig. 1 of the Enclosure. The specimens were heated in an airtight tube through which chlorides of the coating metals were passed. Gaseous chlorine was produced by interacting conc. H₂SO₄ with KMnO₄, purified and dried, and admitted to the furnace containing a boat with the metal powder. The chlorides forming as a result of the high-frequency current heating of the metals in a stream of chlorine then were passed around the specimen and

ACCESSION NR: AT5024874

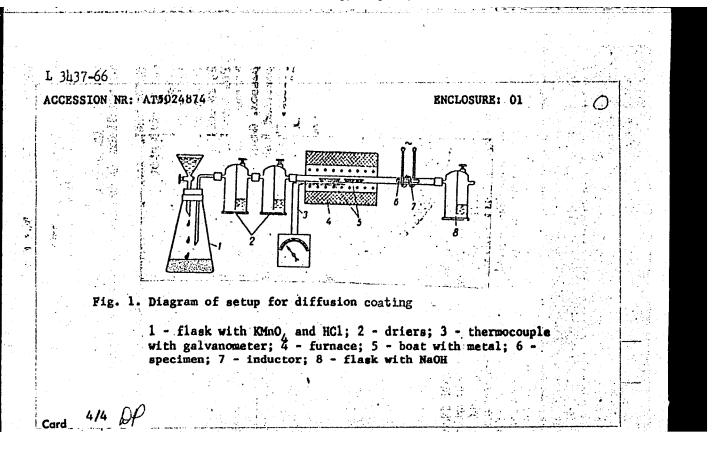
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thereupon eliminated from the setup via a NaOH flask where the chlorine was absorbed. This setup was employed to perform the siliconizing, calorizing, chromizing, tungstenizing, molybdenizing, boronizing, and titanizing of the specimens, with subsequent determination of the microhardness of the case layer and base metal in each case. The gaseous chlorides formed at 600-650°C for Al and at 940-960°C for the other metals. Heating of the specimen was by the intermittent method with an overall exposure of 8-30 sec at 1000-1100°C (and in isolated cases, higher). The temperature of formation of the chlorides in the furnace was measured with a chromel-alumel thermocouple and the heating temperature of the specimens, with an OPPIR-09 optical pyrometer. The specimens were cooled in the atmosphere of chlorine and chlorides. It was thus possible to definitely establish the feasibility of the diffusion coating of iron and steels with Al, Si, Mo, Cr, W, Ti, and B from a gaseous medium -- chlorides of these metals -- on induction heating with high frequency currents. A comparison of case depths showed that the rate of coating of steel with metals from gaseous media on heating with high-frequency currents is several hundred times as high as on heating in a conventional furnace with the microhardness of the diffusion layer remaining within the normal limits. Orig. art. has: 6 figures

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L 3437-66 ACCESSION NR: AT5024874			0	
ASSOCIATION: none				
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EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) L 7656-66 LJP(c) MJW/JD/GS ACC NR: AT5024875 SOURCE CODE: UR/0000/65/000/000/0109/0115 AUTHOR: Grdina, Yu. V.; Gordeyeva, L. T.; Timonina, L. T.

ORG: Institute of Metalworking Problems, AN UkrSSR (Insti AN UkrSSR (Institut problem materialovedeniya AN UkrSSR) 44,55 TITLE: Case hardening of titanium by carburizing and nitriding with high-frequency heating SOURCE: AN UkrSSR. Institut problem materialovedeniya. Diffuzionnyye pokrytiya na metallakh (Diffusion coatings on metals). Kiev, Naukova dumka, 1965, 109-115 44.54 16 TOPIC TAGS: hardening, case hardening, titanium case hardening, titanium carburizing, titanium nitriding, titanium carbonitriding ABSTRACT: Case hardening of titanium and VT-4 and VT-6 titanium alloy by carburizing or nitriding has been investigated. Cylindrical specimens 3 mm in diameter and 200 mm long, and disks 40 mm in diameter and 10 mm thick were carburized by painting a silvery graphite paste, hf heating up to 850-1100C, and holding for 10-30 min in a helium atmosphere. A case 0.25 mm deep was obtained in 15 min on specimens 3 mm in diameter; its microhardness was 1780 HV50, dropping to 400 HV50 at a depth of 0.4 mm. The disk specimens were tested for wear resistance in dry friction at 220 rpm and a load of 750 n. Disks carburized for 15 min showed no wear after 4-hr tests. Disks carburized for a shorter or longer time had much lower wear resistance. Nitriding produced similar results. The specimens were nitrided for 6, 10, 15, or 20 min at 850-1100C in a nitrogen-Card 1/2

ACC NR: AT502				•
filled chamber	under pressure of a lo	E0		
10 30 µ) was of	under pressure of a 40- tained by holding for 20 No wear was observed after	of water	column. The	thickest case (u
CUUU dan/mm².	NO month and a	Cabe	· nau a micron	lardness of +-
ase was found	to be much more oxidation d alloy specimens at 1000	n resistant th	resistance te	st. The nitrided
nitial allow	d alloy specimens at 1000 Orig. art. has: 7 figur	OC in air was 7	5% lower than	that of the
	.			AZ
UB CODE: MM/	SUBM DATE: 06Aug65/ OF	OTA Dun		*:
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L 52704_65 EMP(e)/EWT(m)/EWP(w)/EWA(d))/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) Pf-4
ijp(e) MJW/JD"	
ACCESSION NR: AP5013161	UR/0129/65/000/005/0050/0052 669.295:669.3
AUTHOR: Grdina, Yu. V.; Gordeyeva, L. T.;	Timonina, L. G.; Romashova, T. A. 39
TITLE: Diffusion impregnation of titanium	alloys with copper 35
SOURCE: Metallovedeniye i termicheskaya ob	rabotka metallov, no. 5, 1965, 50-52
TOPIC TAGS: titanium alloy, alloy impregnatimpregnated layer property/VT3 titanium all	tion, copper impregnated alloy,
ABSTRACT: A method of impregnation with co [4.0-5.0% Al, 1.0-2.0% Mn] alloys by pack	cementation is described. Rolls 10 mm
in diameter and rods with 3-mm diameter or a mixture of 30-40% copper chips, 5-6% co	pper powder 1050-60% crushed refractory
clay, and 1% ammonium chloride, and held for nated layer 0.1-0.4 mm, thick with a maximum	r 1-3 hr at 750-950C. A copper-impreg- m microhardness of 1500 was obtained by
this method. By a modified method, holding in an argon atmosphere, a copper-impregnate	paste-coated specimens at 9500 for 3 hr
of 1500 was obtained. The layer consisted	of TiCu3, Ti2Cu, Ti3Cu and a-Ti phases
Card 1/2	

e conner-impregnated	rolls exhi	bited no weight loss,	onditions of dry friction, whereas the untreated rolls	
ired with herdened	Ul2A tool s	teel lost up to 2.5 g	per roll. Orig. art. has: [MS]	
figures.	N			
SOCIATION: none				
BMITTED: 00		ENCL: 00	SUB CODE: MM	
REF SOV: 004		OTHER: 000	ATD PRESS: 4012	

GRDINA, Yu.V.; TOV, G.M.; GONCHAROVA, S.G.

Electron microscopy of the Gl3 steel. Izv.vys.ucheb.zav.; chern.met. 8 no.6:131-136 '65. (MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

GRDINA, Yu.V. 2 MOTOY, A.V.

Artificial reproduction of the defect of contact fatigue in specimens out out of rail heads. Izv. vys. ucheb. zav.; chern. met. 8 (MIRA 15:8) no.63148-150 65.

l. Sibirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; CLIKMAN, Ye.E.; TOV, G.M.

Brittleness of high-silicon ferritic steel during tempering. Izv.vys. ucheb.zav.; chern.met. 8 no.8:108-113 '65.

(MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

GRDINA, Yu.V.; GORDIN, O.V.

Dependence of impact toughness in rail steel on the finishing temperature. Izv.vys.ucheb.zav.; chern.met. 8 no.8:114-117 '65. (MIRA 18:8)

1. Sibirskiy metallurgicheskiy institut.

L 12999-66 EUT EUT(n)/EUP(u)/T/EUP(t)/EUP(b)/EWA(c) JD/JW SOURCE CODE: UR/0148/65/000/012/0101/0107 AUTHOR: Grdina, Yu. V.; Glikman, Ye. E.; Piguzov, Yu. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) B.55 TITLE: Study of reversible temper brittleness of steel SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1965, 101-107 TOPIC TAGS: Teversible temper brittleness, brittleness, steel, internal friction, phosphorus, metal grain structure ABSTRACT: The discovery (M. G. Lozinskiy, A. Ye. Fedorovskiy, Izvestiya AN SSSR, OTN, 6, 1958, and others) of the relationship between internal friction and the processes of the embrittlement of technically pure steels during tempering (450-550°C) still leaves unclarified the mechanism of the phenomenon of reversible temper brittleness (TB). In this connection, the authors investigated internal friction in five steels with distinct proneness to temper brittleness, by mounting wire specimens (diameter 0.8 mm, length 100 mm) in a relaxation oscillator. Internal friction was measured over a temperature range from room temperature to 600°C at a frequency of 1.1 cps, whereupon isothermal embrittlement was carried out in the oscillator's furnace for 8-12 hr; after cooling to room temperature the internal friction of the embrittled specimens Card 1/3 UDC: 669.011.7

L 12999-66

ACC NR: AP6001684

was determined over the 20-600°C range. A definite correlation was established between proneness to TB and the variation in internal friction. In the phosphorus-free steel for which tempering at 530°C leads to a rise in the threshold of cold brittleness and intensification of the etchability of boundaries in picric acid, the internal friction background increases, whereas in the phosphorus-containing steels (0.032-0.05% P) the internal friction background decreases: this change may be attributed to the enrichment of grain boundaries with P, an enrichment that is of adsorptional nature. The other alloy elements in the steels (Mn, Ni, Si) do not affect TB: brittleness develops even in pure carbon steel if it contains a sufficient amount of P. On hightemperature tempering (650°C), the grain boundaries are mainly enriched with C, while P then gets distributed uniformly throughout the grain volume. Low-temperature tempering, on the other hand, causes the grain boundaries to be enriched with P, which leads to some decrease in the internal friction background level: this may be associated with the displacement of part of C atoms from the boundary zones into the grain in terior owing to the intensified adsorption of P. The attendant increase in the number of dislocation points leads to a decrease in the internal friction background level. After such tempering the steel assumes a brittle state with enhanced proneness to intergranular fracture, which is associated with the decrease in the surface energy of grain boundaries owing to the adsorption of P and the concomitant facilitation of the formation and development of intercrystalline cracks. Reheating to 650°C again restricts the intercrystalline adsorption of P and increases the concentration of C in

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EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/COP(b)/EWA(c) JD/HW 13000-66 ACC NR: AP6001686 SOURCE CODE: UR/0148/65/000/012/0112/0113 • AUTHOR: Grdina, Yu. V.; Tarasko, D. I.; Druzhinin, V. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) TITLE: High-temperature thermomechanical treatment of rail steel SOURCE: IVUZ. Chernaya metallurgiya, no. 12, 1965, 112-113 TOPIC TAGS: rail steel, austenitic steel, theat treatment, cold working, tensile strength, plasticity, landress, metal grain etructure, febricates etructurel metal ABSTRACT: Thermomechanical treatment markedly improves the strength of metal while preserving or even improving its plastic properties. It is most effective for alloy steels with an 0.4-0.5% Content. But industry employs a broad variety of steels containing more than 0.5% C. Hence the authors investigated the possibility of applying high-temperature thermomechanical treatment (HTTMO) to rail steels containing 0.62-0.67% C. Billets measuring 20x30x200 mm were heated in an electric compartment-type furnace and deformed in a two-high rolling mill (one passage) at the rate of 5.7 m/sec and spray-cooled. After tempering at 200 or 400°C they were processed into specimens for tensile and impact tests. Findings: maximum hardness ($H_{\rm p} = 470-480$) and tensile strength ($\sigma_{\rm B} = 180-190$) are obtained in the case of HTIMO with subsequent tempering at 200°C. In certain regimes of HTIMO the area of fracture of the specimens fractured **Card 1/2** UDC: 669.14:621.78

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EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/T/EWP(t)/EWP(k)IJP(c) JD/HN/JG/WB SOURCE CODE: UR/0148/66/000/002/0119/0121 ACC NR. AP6007928 Grdina, Yu. V.; Tarasko, D. I.; Dadochkin, N. V.; Gordin, O. V. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) 86 TITLE: Rapid oxidation-free heating of metals for rolling B SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 119-121 TOPIC TAGS: steel, refractory metal, molybdenum, tungsten, niobium, steel heating, refractory metal heating, oxidation free heating, metal oxidation, oxidation prevention / 60S2 steel, 45G steel, steel 5 ABSTRACT: In a search for an effective and inexpensive method of heating steels and refractory metals for forging, rolling, and extrusion, molten glass has been tested as a heating medium. Specimens of steels 60S2, 45G, 555, and molybdenum, tungsten, and niobium were heated up to 1100-1350C in molten glass (71.88% SiO2, 1.11% Al2O3, 1.5% Fe₂O₃, 7.32% CaO, 2.27% MgO, 14.15% K₂O + Na₂O) for 5 min to 3 hr. No sign of oxidation was observed on any specimen. On the other hand, 60S2 steel conventionally heated to 1150C was extensively oxidized after holding 20 min. This type of steel, badly affected by decarbonization in conventional heating, showed no sign of decarbonization when UDC: 669.046-947 Card 1/2

heated film or oxidati tion, i	AP60079 in molten the metion outsiin forginoteotive ed. Refi	n glas al sur de the ag, or film c	face wind bath, in extracks and metal	hich all such a rusion a sand a s	lso pro as in h . In r slight aver. s	tects ot rol apidly oxidat	the main state of the cool of	etal with led co (tempo lized	agai 5—2 arbon er co at t	nst 0% re stee lors) he te	duc- ls. is m-	
peratu:	res at wi	ich th	e temp	er col	ors are	forme	d. (rig.	art.	has:	[ND]	
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L 20788_66 EWT(m)/T/EWP(t) IJP(c) JD/JG

ACC NR: AP6005560

SOURCE CODE: UR/0148/65/000/010/0101/0105

AUTHOR: Grdina, Yu. V.; Lykhin, I. D.

ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut)

33

TITLE: Structure of vanadium-carbon alloys

SOURCE: IVUZ. Chernaya metallurgiya, no. 10, 1965, 101-105

TOPIC TAGS: vanadium containing alloy, carbide, ternary alloy, phase composition, chemical composition

ABSTRACT: To fill the gap in the existing knowledge of the phase composition of Fe-V-C ternary alloys, it is primarily necessary to investigate the composition and structure of the carbide phase of the V-C system. So far there has not been much agreement on the chemical composition of the carbides in the V-C system but at any rate it is now generally admitted that two types of carbides form in this system: with hexagonal (V₂C) and cubic face-centered lattice (VC). But the boundaries of homogeneity of the carbide phases have not previously been conclusively determined. In this connection, the authors investigated alloys made of pure V (99.825%) and spectrally pure graphite. One part of the alloy was investigated in "natural" state while the other was vacuum-annealed (10⁻³ mm Hg) in quartz tubes at 1000, 750 and 550°C for 100 hr, with subsequent metallographic and radiographic examination of the

Card 1/2

UDC: 669.292;669.784:620.183

L 20788-66

ACC NR: AP6005560

specimens and electrolytic precipitation of the carbide residue. It was thus established that the homogeneous region for the carbide V₂C with hexagonal lattice extends from 9.6 to 10.45% C (wt.), while for the carbide VC with cubic lattice it extends from 12.5 to 17.8% C (wt.). A comparison of the findings with the conflicting data available in the published literature shows that the lower boundary of stability of the vanadium carbide VC with cubic lattice cannot as yet be conclusively established owing to the diversity of investigating techniques employed by various researchers. On the other hand, the findings on the upper level of concentration of C in the carbides VC, specifying it at from 16.6 to 17.8%, are generally in close agreement. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 11, 13, 20/ SURM DATE: 09Apr65/ ORIG REF: 004/ OTH REF: 006

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L 24743-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t) IJP(c) JD/JH ACC NR: AP6007927 SOURCE CODE: UR/0148/66/000/002/0115 AUTHORS: Grdina, Yu. V.; Glikman, Ye. E. ORG: Siberian Metallurgical Institute (Sibirskiy metallurgicheskiy institut) TITLE: The relation between dislocation blocking by impurities within and on the TITLE: The relation between <u>dislocation</u> blocking by impacts boundaries of crystal grains and the critical temperature of <u>brittleness</u> SOURCE: IVUZ. Chernaya metallurgiya, no. 2, 1966, 115-118 TOPIC TAGS: metal test, crystal dislocation phenomena, carbon steel, aluminum, carbon, phosphorus, brittleness, crystal impurity ABSTRACT: This investigation was conducted to study the relationship between impurities dislocations and the critical temperature of brittleness in several low carbon steels. All alloys were deoxidized with 0.1% aluminum? hence the principal blocking impurity was carbon. The specimens were quenched at 650--530C and were subsequently cooled in water. The experimental results are presented in terms of the constant K $K_y = \sigma_D l^{1/2}$ which is assumed to be a measure of the tension required to unblock a dislocation on the grain boundaries. Here, $\sigma_{\rm D}$ is the tension necessary for the removal of a dislocation from the impurity atmosphere, and ℓ is the distance between the grain 669.011.7 Card 1/2

ACC NR: AP6007927

boundary and the nearest dislocation source. The values of K, were derived from tension curve diagrams by an extrapolation procedure described by S. N. Polyakov and A. S. Kudlay (Izvestiya AN SSSR, Metallurgiya i gornoye delo, 1964, No. 6). The extrapolation procedure translation are presented in graphs and tables. It is concluded that the

experimental results are presented in graphs and tables. It is concluded that the reversible quenching brittleness is due to enrichment of the grain boundaries by phosphorus, an explanation proposed by Yu. V. Grdina, Ye. E. Glikman, and Yu. V. Piguzov (Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1965, No. 12) Orig. art. has: 1 table, 2 graphs, and 3 equations.

SUB CODE: 11/ SUBM DATE: 25Jul65/ ORIG REF: 005/ OTH REF: 006

Card 2/2 MQ 5

L 24743-66

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YUGOSLAVIA / Chemical Tochnology. Chemical Products H and Their Application. Industrial Organic Synthesis.

Abs Jour: Rof Zhur-Khimiya, No 9, 1959, 32353.

Author : Grdinic, M., Brihta, I.

Inst : Not given.

Title: The Investigation of the Process of Acctone Derivation from Ethyl Alcohol and Acetylone.

Orig Pub: Kemija u industriji, 1957, 6, No 6, 157-163.

Abstract: It is indiscated that the highest degree of conversion (DC) of C₂H₅OH (I), mixed with water vapor (II), into acetone (III) takes place in the presence of the catalyzer (C) ZnO / Fo₂O₃ (100:6 mols), in comparison with previously studied C (CaCO₃ / Fo₂O₃ in Fe shavings; Fo₂O₃;

Card 1/2

218

GRDINIC, M.

A contribution to the knowledge of the reaction products of acidic amides with phosphorus pentachlorides. Bul sc Youg 8 no.3/4:84-85 Je-Ag 63.

1. Institut "R. Boskovic", Zagreb.

GNDINOUA M.

CZECHOSLOVAKIA/Microbiology - General Microbiology.

F-1

Abs Jour : Ref Zhur - Biologiya, No 7, 1957, 26266

Author : Kotskova-Kratokhvalova, A., Gebauerova, A., Grdinova, M.

Inst :

Title : The Production of Volatile Arsenic Compounds by Fungi.

Orig Pub : Ceska mykol., 1956, 10. No 2, 77-87

Abst : It was found that certain fungi (Cladosporium and Tricho-

derma) will grow in a medium with a high arsenic concentration, without producing volatile compounds, whereas others, for whom arsenic is a poison, produce trimethylarsine (I; the more active fungi are those of the species Scopulariopsis brevicaulis and one strain of Aspergillus fumigatus). I accumulates in mycelium in the form of oxides that are soluble in water with difficulty.

Glucose stimulates the production of I.

Card 1/1

GEYNAL, Ya. [Heinal, J.]; GHDLICHKA, Z. [Hrdlicka, Z.]; VRUBEL', I.

Protective effect of chlortetracycline on the vitality of exanguinated tissues and organs. Antibiotiki 5 no.6:25-30 N-D '60.

(MIRA 14:3)

1. Institut klinicheskoy i eksperimental'noy khirurgii. Praga-Krch. (AUREOMYCIN) (HEMORRHAGE)

LANDA, V.; GRDY, I.; NOVAK, K.; SKUGRAVY, V.

Results of research on cockchafer control in Czechoslovakia [with summary in English]. Zool. zhur. 37 no.3:394-402 Mr '58. (MIRA 11:4)

1. Entomologicheskaya laboratoriya Chekhoslovatskoy AN, Praga. (Czechoslovakia--Cockchafers)

1.	ORDZELIDZE,	A. M.	ANANYASHVILI,	G.	D.
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- 2. USSR (600)
- 4. Methane
- 7. Obtaining methane gas for production needs from manure and other organic waste. Dost sel'khoz No 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ACCESSION NR: AT4030796

8/0000/63/000/000/0110/0118

AUTHOR: Tavadze, F.N.; Bayramashvili, I.A.; Khantadze, B.V.; Grdzelishvili, V.A.

TITLE: The influence of boron on the surface tension of nickel

and the second second

SOURCE: AN UkrSSR. Institut metallokeramiki i spetsial ny*kh splavov. Poverkhnostny*ye yavleniya v rasplavakh i protsessakh poroshkovoy metallurgii (surface phenomena in liquid metals and processes in powder metallurgy). Kiev, IEd-vo AN UkrSSR, 1963, 110-118

TOPIC TAGS: surface tension, boron, nickel, beryllium oxide, aluminum oxide, nickel based alloy, boron containing alloy, hydrogen, helium

ABSTRACT: The authors investigation was conducted by the lying-drop method on an instrument designed and constructed especially for this purpose. The fundamental diagram of the instrument is presented in a figure. The drop was magnified four times. The surface tension of the metal was determined on a flat support of aluminum oxide and beryllium oxide. Special experiments were performed to study the effect of the materials of the heater and the supports, as well as the medium (hydrogen, helium), on the surface tension of nickel and its alloys with boron. The

Card 1/2

ACCESSION NR: AT4030796

results of the investigation were presented in micro-photographs, tables, and figures. The values of the surface tension of nickel in a hydrogen and helium atmosphere were pratically identical. Boron, an inactive element in relation to nickel, did not effect the value of its surface tension and the grain size. The calculation of the generalized moment and the static generalized moment of nickel and boron atoms confirmed the inactivity of boron in nickel-boron alloy systems. Orig. art. has: 10 figures and 2 tables.

ASSOCIATION: Institut metallurgii AN GruzSSR, Tiflis AN (Georgian SSR)

(Institute of Metallurgy

SUBMITTED: 23Nov63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: ML

 ΔP_{i}^{\prime}

NO REF SOV: 006

OTHER: 003

Card 2/2

GRDZELOV, L.I.

Prospects for finding oil and gas in the Adriatic geosyncline. Sov.geol. 5 no.1:160-164 Ja *62. (MIRA 15:2)

1. Ministerstvo geologii i okhrany nedr SSSR.

(Adriatic Sea region—Petroleum geology)

(Adriatic Sea region—Gas, Natural—Geology)

POGOSYAN, S.A.; GRDZELYAN, G.P., otvetstvennyy redaktor; TATEVOSYAN, S.A. redaktor izdatel stva; KAPIANYAN, M.A., tekhnicheskiy redaktor

[The nature of seed bearers of old varieties of ungrafted grapevines and their hybrids] O prirode semennykh rastenii starodavnikh sortov kornesobstvennogo vinograda i ikh gibridov. Erevan, Izd-vo Akademii nauk Armianskoi SSR, 1955. 197 p. (MIRA 9:9) (Grapes)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051661

GROZELYAN, G.P.

VERMISHYAN, A.M.; kand.sel!skokhos.nauk; DII.ANYAN, G.Kh.; SANAGYAN, M.B.; KAZARYAN, Ye.S., kand.sel'skokhos.nauk, otv.red.; ARARATYAN, A.G., saslush.deyatel' nauki, red.; GRDZELYAN, G.P., dotsent, red.; POGOSYAN, S.A., doktor bioleg.nauk; DALIYELYAN, G., red.isd-va; ATOYAN, S., red.izd-va; KUZANYAN, M., red.izd-va; KHACHATRYAN, S., tekhn.red.

[Fruits of Armenia] Plody Armenii. Erevan, Armianskoe gos.izd-vo. Vel.1. [Stone fruit; local varieties] Kostochkovye porody; mestaye sorta. 1958. 243 p. (MIRA 12:7)

(Armenia--Fruit)

GRDZELYAN, P.A.: KARAPETYAN, M.M.: STEPANYAN, N.P.: TOROSYAN, A.S.

Features in calculating yearly losses of electric energy to the corona of mountain transmission lines. Izv.AN Arm.SSR. Ser.tekh.nauk 12 no.6:3-14 '59. (MIRA 13:6)

1. Institut elektrotekhniki AN Armyanskoy SSR. (Electric lines) (Corona (Electricity))

1

GRDZBLYAN, R.A.; DZHANDZHUGAZOV, N.G.; KARAPETYAN, M.M.; TOROSYAN, A.S.

Measuring circuits for investigating power losses in corona discharges. Izv.AN Arm.SSR. Ser.tekh.nauk 10 no.1:19-29 '57.

(MIRA 10:10)

1. Laboratoriya elektrotekhniki AN Armyanskoy SSR.

(Electronic measurements) (Corona (Electricity))

GRDZELYAN, R.; SOKHAKYAN, R.

Transfer of 110 kv. electric power transmission lines to 154 kv. Prom.Arm. 5 no.8:49-54 Ag '62. (MIRA 15:8)

L 00881-66 EVP(i)/EPF(n)-2/EMA(d)/EVP(t)/EWP(z)/EMP(b)JD/WW/JG

ACCESSION NR: AP4047857

AZ/0017/64/000/009/0381/0386

AUTHOR: Frantiu, I. (Engineer); Laiu, N. (Engineer); Greavu, N. (Engineer)

TITLE: Experiments on the cladding of carbon steel plates with stainless steel

SOURCE: Metalurgia, no. 9, 1964, 381-386

TOPIC TAGS: stainless steel, carbon steel, steel plate, steel cladding, compound ingot, electroslag melting

ABSTRACT: This article describes some aspects and variations of the K.M.K. cladding process, used primarily in the Soviet Union and based on the hot rolling of compound ingots. The purpose of the investigation was to establish optimum conditions for this procedure, using the existing Rumanian installations which up to the time of publication - did not correspond to modern requirements. The results obtained during the year 1963 are reported in this paper. In the compound ingot procedure, the basic carbon steel is first forged. A package formed by two stainless steel plates, necessary for the cladding, are then introduced into its center. The two plates are kept together by welding their edges and are separated by an inert layer deposited between them. A schematic diagram of the ingot mold is given. The compound ingot thus obtained is passed through the rolling mill, under normal conditions, until twice the thickness of the intended 1/3

L 00881-66 ACCESSION NR: AP4047857

final product is achieved. This results in a package formed by two strips or plates, with their edges welded all around. The welded edges are cut, and the two sheets are detached at the level of the separation layer. In this manner, each ingot results in 2 sheets or plates of carbon steel, clad on one side with stainless steel. However, these trials, carried out according to the specifications of the K.M.K. method, did not give the expected results. Two modified trials carried out with two series of seven ingots weighing approximately 800 kg each, and 4 ingots of over 2000 kg each, respectively, are described in detail and 3 schematic diagrams are given. These methods brought about the establishment of a good separation layer. A formula for calculating the cladding coefficient (Ki) is given. A Ki of over 100 is needed for a perfectly successful result. The Ki in the various methods used for the processing of the 800-kg ingots varied from ~ 30 to 60-100. The results obtained with the 2000-kg ingots were less satisfactory. In both cases, the specific quantity (g/m2) to be deposited on the surfaces was a function of the type of the inert materials and the size of the cladded surface, besides depending on the welding obtained during rolling. The procedure of electroslag melting involves the deposition, on a carbon steel brick, of a stainless steel layer obtained by the automatic melting of steel electrodes in a slag bath. The bath of molten metal is then used for the formation of an alloy, through the addition of alloying elements in granulated form. The steps of this procedure are described in detail, and several diagrams are given. Card 2/3

L 00881,~66

ACCESSION NR: AP4047857

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This procedure makes possible the rolling of a 20 mm thick compound brick, and its cladding up to a proportion of 15%, without any special difficulties. However, it also necessitates important modifications. Finally, the authors comment on the advantages and disadvantages of each method. "The following persons collaborated in these experiments: Eng. A. Ieremia and Eng. I. Toma of the Combinatul siderurgic Resita (Resita Steel Works), T. Petrescu of I.C.T.C.M.**, Eng. G. Avram of the Uzina "Republica" ("Republic" Plant) in Bucharest, and Eng. C. Savici and S. Torga of the Uzina de tabla (Sheet Metal Works) in Galati."

Orig. art. has: 12 figures and 2 formulas.

ASSOCIATION: Frantiu, Laiu Institutul de cercetari metalurgice (Institute of Metallurgical Research); Greavu Institutul de cercetari tehnologice pentru constructii de masini (Institute for Technological Research on Machine Building)

SUBMITTED: (

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 002

3/3

GREAVU, V., ing.; FREDA, Gh., ing.

Possibilities of using radioactive isotopes in the textile industry. Ind text Rum 12 no.6:225-226 Je '61.

GREBCHUK, M.P.

DERYUGIN, P.S., mostovoy master (st. Ulan-Yde); RUKSHA, G.P.; FILATERKO, O.S., brigadir puti (st. Chad Kazanskoy dorogi); GREBCHUK, M.P., dorozhnyy master (st. Korosten'); ROSNOVSKIY, G.F. (st. Krasne L'vovskoy dorogi); ROSNOVSKIY, G.F. (st. Krasne L'vovskoy dorogi); KONDRASHOV, A.I., brigadir puti (st. Gryazi-Voronezhskiy Yugo-Vostochnoy dorogi).

Letters to the editor. Put' i put. khoz. no.2:38-39 F '59.
(MIRA 12:3)

l.Nachal'nik otdela puti i socrusheniy g. Leningrad (for Ruksha). 2.Zamestitel' nauchal'nika distantsii puti (st. Krasne L'vovskoy dorogi (for Rosnovskiy). (Railroads--Track)

KLARE, G.[Klare, H.]; GREBE, A.[Grobe, A.]; MARON, R.; MANN, G.; YAOST, Kh.[Jost, H.]; KASPERSON, G.[Casperson, G.]

Formation of fiber from modified and nonmodified viscose in precipitation baths containing zinc sulfate. 16th Report on the formation mechanism of viscose monofilaments. Khim. volok. no.6:14-21 '62. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut khimicheskikh volokon AN, Berlin, Teltov-Zeyekhev, Germanskaya Demokraticheskaya Respublika.

(Viscose) (Textile fibers, Synthetic)

GREBE, A., doktor nauk; REYNISH, G., doktor nauk; TSIMMERMAN, G., doktor nauk; GREBE, F., doktor nauk; UL'BRIKHT, I., doktor nauk; SHIFFNER, R., doktor nauk; FILIPP, B., doktor nauk; RUSHER, Kh., doktor nauk; GASPERSON, G., doktor nauk; KLARE, G., doktor nauk; YAKOPYAN, V.

Search and solutions; important research of the German Democratic Republic chemists. Priroda 54 no.6:83-88 Je '65.

(MIRA 18:6)

1. Institut iz cheniya volokna Germanskoy Akademii nauk v Berline,

g. Tel'tov, Germanskaya Demokraticheskaya Respublika.

GREBE, A., doktor nauk; REYNISH, G., doktor nauk; TSIMÆRMAN, G., doktor nauk; GREBE, F., doktor nauk; UL'BRIKHT, I., doktor nauk; SHIFFNER, R., doktor nauk; FILIPP, B., doktor nauk; RUSHER, Kh., doktor nauk; GASPERSON, G., doktor nauk; KLARE, G., doktor nauk; YAKOPYAN, V.

Search and solutions; important research of the German Democratic Republic chemists. Priroda 54 no.6:83-88 Je '65.

1. Institut izucheniya volokna Germanskoy Akademii nauk v Berline,

g. Tel'tov, Germanskaya Demokraticheskaya Respublika.

GREBECKI, A.; KINASTOWSKI, W.; KUZNICKI, L.

Some observations on the ecology of larvae of Molanna angustata (Curtis) and their distribution in an environment.

p. 191 Vol. 2, no. 1, 1954 POLSKIE ARCHIWUM HYDROBIOLOGII Warszawa

SO: Monthly List of East European Accessions (ERAL), LC, Vol. 5, no. 12
December 1956

GREBECKI, A.

Response of larve of Molamma angustata Curt. to light. p. 95. Vol. 3, no. 2, 1955 Warszawa

FOLIA BIOLOGICA

SOURCE:

East European Acession List (EEAL) Library of Congress

Vol. 5, no. 8, August 1956

GREBECKI, A.; KINASTOWSKI, W.; KUZNICKI, L.

So-called peripheral reaction of Paramecium caudatum. Fol.biol.
Warsz. 3 no.2:117-125 1955.

1. Zaklad Biologii Ogolnej Instytutu im. M. Menckiego PAN.
Kierownik: Pref. Dr. J. Dembewski.

(CILIATA,

Paramecium caudatum, affinity to peripheral spaces
in closed areas)

(BEHAVIOR,

affinity of animals including Paramecium caudatum
to peripheral spaces in closed areas)

GREECKI, A.; KUZNICKI, L.

Relation between Paramecium candatum and the chemism of the enviorment and a protective reaction of a group against inorganic substances. p. 127, Vol. 3, no. 2, 1955 Warszawa

FOLIA BIOLOGICA

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956

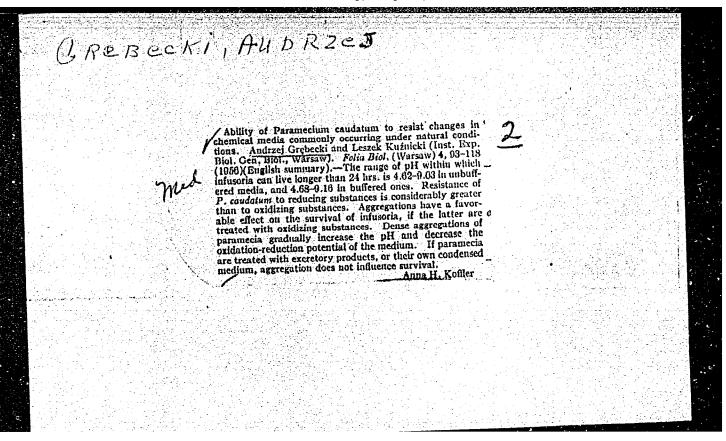
GREBECKI, A.; KUZNICKI A.

FOLIA BIOLOGICA

Investigations on protective reaction of individual and aggreate In fusoria in solutions of organic substance. p. 159.
Vol. 3, no. 2, 1955 Warszawa

East European Acession List (EEAL) Library of Congress SOURCE:

Vol. 5, no. 8, August 1956



GREBECKI, A.

Experimental studies on the selection and adaptability in Paramecium caudatum. Acta biol exper 21:35-52 161.

1. Department of Biology, Nencki Institute of Experimental Biology, Warsaw.

(CILIATA)

GREBECKI, A.; KUZNICKI, L.

Immobilization of Paramecium caudatum in the chloralhydrate solutions. Bul Ac Pol Biol 9 no.11:459-462 '61.

1. Department of General Biology, M.Nencki Institute of Experimental Biology, Polish Academy of Science. Presented by J.Dembowski.

GREBECKI, A.

Adsorption of fluorochrones by the Ciliata cytostome. Bul Ac Pol biol 10 no.11:483-485 '62.

1. Zaklad Biologii Ogolnej, Instytut Biologii Doswiadczalnej im. N.Nenckiego, Polska Akademia Nauk, Warszawa. Presented by J.Dembowski.

1

GREBECKI, Andrzej

Selected problems of the electrophysiology of motion and absorption in protozoans; electric properties of the protozoan cell. Kosmos biol 13 no.2:105-123 *64

S/135/60/000/005/001/009 A115/A029

Kushnerev, D.M., Candidate of Technical Sciences; Grebel'nik, M.P., AUTHORS:

Engineer

Ceramic Flux for Automatic Welding of 1x18H9T (1Kh18N9T) Stainless TITLE:

Steel 15

Svarochnoye proizvodstvo, 1960, No. 5. pp. 1 - 4 PERIODICAL:

The purpose of this study was to find out a ceramic flux which would secure resistance of weldments to intercrystallite after-welding corrosion; high TEXT: quality of weldments was sought with d-c or a-c applied, and finally, the possibility of application of standardized Co-1X18H9T (Sv-1Kh18N9T) wire. The indispensable requirement for the composition of a ceramic flux for welding highalloyed austenite steel is a minimum of oxidizing elements in the melting pool; this is the only way to obtain high concentrations of chromium and titanium in the seam. In this respect, the most suitable fluxes are composed on fluorine basis. The disadvantage of these fluxes is their low stabilizing capacity suitable for welding with d-c only. The fused metal is slightly oxidized by welding with flux made of CaO, MgO, Al203, T102. CaO and MgO should be preferred since

Card 1/3

S/135/60/000/005/001/009 A115/A029

Ceramic Flux for Automatic Welding of 1X18H9T (1Kh18N9I) Stainless Steel

lime slags reduce the content of sulfur. In the case of marble, during welding calcium oxide is generated, affecting the health of the welder; attempts to avoid this obstacle failed. Calcination of marble with SiO2 and Al2O3 does not eliminate hydration. Nevertheless, the use of marble electrodes secures high quality seams in weldments of chrome-nickel steels; therefore, many compositions of ceramic flux have been tried out and the following found most suitable for welding steel 1Kh18N9T: marble 57 - 60%, magnesite brick 9 - 10%, alumina 4 - 5% fluorspar 5 - 6%, TiO₂ 14 - 16%. Good results have been achieved by bringing into the flux ferro-silicon. K-8 (K-8) flux is composed as follows: 54 - 58% GaCO₃, 8.5 - 11% MgO, 14 - 15% TiO₂, 4.5 - 5% Al₂O₃, 5.0 - 6% CaF₂, 4.0 - 5.0% SiO₂, 1.5 - 2.0% Na₂O₃, 3.6 - 3.9% Si, 1.1 - 1.4% Fe, 0.1% S and P. This ceramic flux secures good seams, easy removal of slag crust (Fig. 1) and high resistance against pores and blisters. When welding steel 1Kh18N9T under K-8 flux with Sv-1Kh18N9T and 3M606 (EI606) wires (Table 3), the metal of the seam has twophase austenite-ferrite structure with only 3 - 5% of ferrite (Fig. 2). The mechanical characteristics of the seam are not inferior to those of the basic metal (Fig. 4). Exposure for a prolonged time to 750°C did not affect the toughness of the welded seam (Table 5). Ceramic flux K-8 has found widespread appli-

S/135/60/000/005/001/009 A115/A029

Ceramic Flux for Automatic Welding of 1X18H9T (1Kh18N9T) Stainless Steel

cation in machinery and chemical industries. There are 3 figures, 6 tables and

ASSOCIATION: Institut Electrotekhniki Akademii Nauk Ukrainskoy SSR (Electrotechnical Institute of the AS Ukr SSR)

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Card 3/3

ACC NR. AP7004195

alloy Sv-06Kh19N9T filler wire under ceramic flux No. 5 (60% marble, 20% fluorspar, 15% rutile concentrate, 3% ferrosilicon, 2% ferrotitanium TiO), the desired chemical composition of the weld metal can be obtained over a wide range of welding conditions. The second method of alloying the weld metal was also 50% cheaper than the first. In automatic welding of high-alloy stainless steels under ceramic flux, it is advisable to use a standard high-alloy filler wire, and the alloying with flux only for additional alloying and deoxidation of the molten metal bath. Orig. art. has: 3 figures and 1 table.

SUB CODE: 1113/ SUBM DATE: 24Sep65/ ORIG REF: 003

Card 2/2

GREBEL'NIK, F. G.

Avtomaticheskaia svarka pod slcem fliusa; opyt Gor'kovskogo avtozavoda im. Molotva. Gor'kii, Oblizdat, 1947. 136 p.

Automatic flux welding method; practice of the Gorky Molotov automobile plant.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GREBEL'HIK, P. G.

Grebel'nik, P. G. "On the course of introducing automatic welding into industry in the light of the decision of the Council of Fisisters, USSR, of 9 June 1947", Trudy Vsesoyuz. konf-tsii po avtomat. svarke pod flyusom, 3-6 October 1947, Kiev, 1948, p. 11-17.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949)).

BORT, M.M., kandidat tekhnicheskikh nauk; BYALOTSKIY, L.A., assistant; VASIL'YEV, G.V., assistent; GAPCHENKO, M.N., kandidat tekhnicheskikh nauk; GREBEL'HIK, P.G., kandidat tekhnicheskikh nauk, otvetstvennyy redaktor; TROCHUN, I.P., kandidat tekhnicheskikh nauk; SERDYUK, V.K., vedushchiy redaktor; inshener; RUDENSKIY, Ya.V., tekhnicheskiy redaktor.

[Electric welder's reference book] Spravochnik elektrosvarshchika. Isd. 2-e, perer. Kiev, Gos. nauchno-tekhn. isd-vo mashinostroit. lit-ry, 1954. 515 p. [Microfilm] (MLRA 8:1) (Electric welding)

KHRENOV, Konstantin Konstantinovich; GREBEL NIK, P.G., kand.tekhn.nauk, retsenzent; FURER, P.Ya., red.; RUDENSKIY, Ya.V., tekhn.red.

[Welding, cutting, and soldering of metals] Svarka, reska i paika metallov. Izd.2., perer. i dop. Kiev, Gos.nauchno-tekhn. isd-vo mashinostroit.lit-ry, 1955. 411 p. (MIRA 12:8) (Welding) (Metal cutting)

CREBELINIK, T.E.

RYABOKON', Nikolay Gavrilovich; GAL'CHINSKIY, Leonid Viktorovich; GREBEL'NIK,
P.G., kand.tekhn.nauk, retsenzent; LYSENKO, F.K., red.; SOROKA, N.S.,
red.izdatel'stva.

[Arc welder's manual] Uchebnik elektrosvarshchika. Kiev, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 154 p. (MIRA 10:12)
(Electric welding)

PHASE I BOOK EXPLOITATION SOV/3947

- Elektroshlakovaya svarka (Electroslag Welding) 2d ed., rev. and enl. Moscow, Mashgiz, 1959. 406 p. Errata slip inserted. 6,500 copies printed.
- Reviewer: I.I. Zaruba, Candidate of Technical Sciences; Ed. (title page):
 B.Ye. Paton, Laureate of the Lenin Prize, Academician, Academy of Sciences USSR;
 Eds. (inside book): P.G. Grebel'nik, Candidate of Technical Sciences, and G.D.
 Tynyanyy; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk, Engineer.
- PURPOSE: This book is intended for technical personnel studying the electroslagwelding process.
- COVERAGE: The book contains information on the essentials, characteristic features, and advantages of electroslag welding. Thermal and metallurgical characteristics of the processes of electroslag welding and surfacing of steels and other metals are described. Also described are constructions of welding equipment and automatic-control systems for electroslag welding. The following persons participated in writing the book: Candidates of Technical Sciences G.Z. Voloshkevich, S.A. Ostrovskaya, D.A. Dudko, I.K. Pokhodnya, Yu. A. Sterenbogen, G.V. Zhemchuzhnikov, P.I. Sevbo, B.I. Medovar, and D.M. Rabkin; Engineers I.N. Rublevskiy,

Electroslag Welding	
and I.V. Novikov, 0.0. Rozenhama W. m. a.	7
and I.V. Novikov, 0.0. Rozenberg, V.P. Didkovskiy, G.S. Tyagun-Paton, Academician, Doctor of Technical Sciences, Laureate of the TABLE OF CONTENTS.	Belous; and B.Ye.
TABLE OF CONTENTS:	te tenin Prize.
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Card 2/7	32

PATON, B.Ye., akademik, doktor tekhn.nauk, laureat Leninskoy premii;
VOLOSHKEVICH, G.Z., kand.tekhn.nauk, laureat Leninskoy premii;
OSTROVSKAYA, S.A., kand.tekhn.nauk; DUDKO, D.A., kand.tekhn.nauk;
POKHODNYA, I.K., kand.tekhn.nauk; STERENBOGEN, Yu.A., kand.tekhn.nauk; RUHLEVSKIY, I.N., inzh.; ZHEMCHUZHNIKOV, G.V., kand.tekhn.nauk; ROZENBERG, O.O., inzh.; SEVBO, P.I., kand.tekhn.nauk; NOVIKOV, I.V., inzh.; MEDOVAR, B.I., kand.tekhn.nauk; DIDKOVSKIY, V.P., inzh.; RABKIN, D.M., kand.tekhn.nauk; TYAGUN-BELOUS, G.S., inzh.; ZARUBA, I.I., kand.tekhn.nauk, retsenzent; GREBEL NIK, P.G., kand.tekhn.nauk, red.; TYNYANYY, G.D., red.

[Blactric slag welding] Elektroshlakovaia svarka. Izd.2., ispr. 1 dop. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 409 p. (MIRA 13:4)

1. AN USSR (for Paton).
(Electric welding)

BORT, M.M., kand.tekhn.nauk; BYALOTSKIY, L.A., inzh.; VASIL'YEV, G.V., inzh.; VOSHCHANOV, K.P., inzh.; GAPCHENKO, M.N., kand.tekhn.nauk; GORPENYUK, N.A., kand.tekhn.nauk; GREBEL'NIK, P.G., kand.tekhn.nauk; DYATLOV, V.I., kand.tekhn.nauk; TROCHUN, I.P., kand.tekhn.nauk; KHRENOV, K.K., akademik; SOROKA, M.S., red.

[Electric welder's handbook] Spravochnik elektrosvarshchika. Izd.3., perer. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 748 p. (MIRA 14:6)

1. AN USSR (for Khrenov).
(Electric welding)

GREBEL'SKAYA. E.S., kandidat meditsinskikh nauk

Psychological preventive functions of a physician in the school. Pediatriia no.4:61-66 Jl-Ag '54. (MIRA 7:10)

1. Iz detskoy psikhiatricheskoy kliniki Instituta psikhiatrii Ministerstva zdravookhraneniya RSFSR (rukovoditel' kliniki prof. G.E.Sukhareva)

(SCHOOLS.

med. serv. in Russia, psychol. & prev. funct.)

Un:	DELISKAYA, M. M.		
	\$1.4L/02	USSR/Chemistry - Acetylene (Contd) prove feasible use of general theory of ppts for conditions under consideration of certain sp properties of a series of ppts.	USSR/Chemistry - Acetylene "Solubility of Copper, Silver, and Mercury Acetylenides," A. K. Babko, M. M. Grebel'skaya "Zhur Obshch Khim" Vol XXII, No 1, pp 66-76 Methods for detn of C2H2 in control of various production processes involving use of C2H2 usually clarate formation of difficultly sol C2Cu2, C2Hg2. Studied equil in satd solns of these acetylenides and derived expressions for soly relationships. Studied their soly in acids, order of their solubilities, effect of excess of pptg agent, and their interaction with different reagents. Results

GREBEL'SKAYA, Ye. S.

Grebel'skaya, Ye. S. - "The experience of psychotherapy in schizophrenia of children and adolescents," Trudy Tsentr. in-ta psikhiatrii, Vol. IV, 1949, p. 405-13

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

OREBEL'SKIY Petr Khaimovich; HEZNIK, Meer Khaimovich; DORMIDOFTOV, F.K., otvetstvennyy redaktor; KOMOLOVA, V.M., tekhnicheskiy redaktor [Mechanic's manual on the technology of fitting ship installations and equipment] Spravochnik slesaria-dostroicheskip

and equipment] Sprayochnik slesaria-dostroishchika po tekhnologii montaxha sudovykh ustroistv, del'nykh veshchei i oborudovaniia pomeshchenii. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., (Shipbuilding)

GREBEL'SKIY. Petr Khaimovich, REZNIK, Meyer Khaimovich, DORMIDONTOV, P.K., otv.red.; TSAL, R.K., tekhn.red.

[Installation of metal appointments in ships] Montazh metallicheskogo oborudovniia sudovykh pomeshchenii. Leningrad, Gos. soiuznoe izd-vo (Shipfitting) (MIRA 11:9)

GREBEL'SKIY, Petr Khaimovich; REZNIK, Meyer Khaimovich; KRUPNIKOV,
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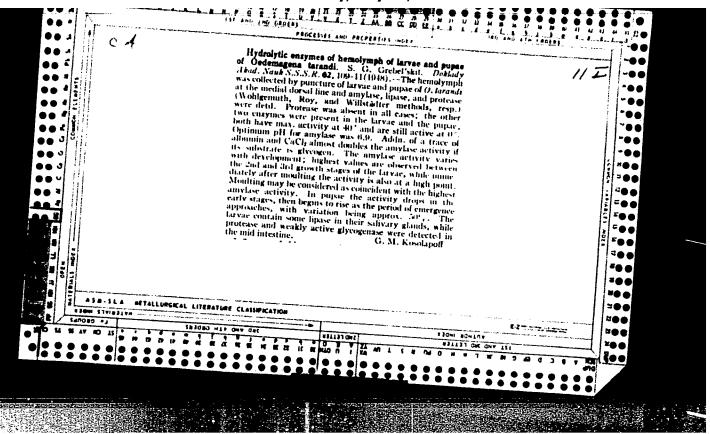
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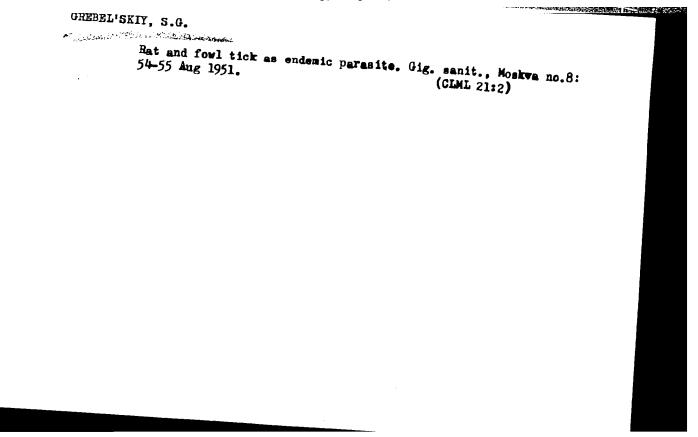
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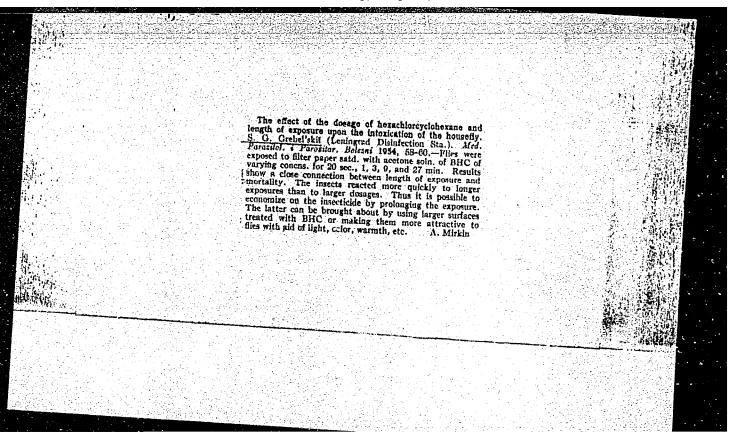




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